



NEW ELECTRICAL ONE LINE DIAGRAM FOR FBO HANGAR

DEVICE	LABEL
FBO MAIN DIST. PANEL	FBO MAIN DIST. PANEL 208/120VAC, 3PH, 4W FED FROM SERVICE DISCONNECT AT VAULT
fbo main dist panel	NOTE THERE IS A SECOND FEEDER DISCONNECT TO THIS BUILDING LOCATED IN THE FBO EMERGENCY PANEL ON THE SOUTHWEST WALL OF THE HANGAR
FBO EMERGENCY PANEL	FBO EMERGENCY PANEL 120/208VAC, 1PH, 3W FED FROM PANEL B IN THE VAULT
FBO EMERGENCY PANEL	NOTE THERE IS A SECOND FEEDER DISCONNECT TO THIS BUILDING LOCATED IN THE FBO MAIN DIST. PANEL LOCATED AT THE SOUTH CORNER OF THE HANGAR
FBO UPSTAIRS PANEL	FBO UPSTAIRS PANEL 120/208VAC, 1PH, 3W FED FROM FBO EMERGENCY PANEL

LEGEND PLATE SCHEDULE

LEGEND PLATES SHALL BE WEATHERPROOF ENGRAVED PLASTIC OR PHENOLIC MATERIAL, 1/4" HIGH BLOCK LETTERS ON A WHITE BACKGROUND, SECURE WITH WEATHERPROOF ADHESIVE AND/OR MACHINE SCREWS.

WORK SHOWN ON THIS SHEET IS FOR BID

ALTERNATE NO. 1

NOTES

- ALL WORK AND/OR POWER OUTAGES SHALL BE COORDINATED WITH THE AIRPORT MANAGER AND THE
 RESIDENT ENGINEER.
- CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS & REPORT ANY VARIATIONS TO RESIDENT FINCINFER

20 AMP BRANCH CIRCUITS SHALL USE \$12 AWG THWN (MIN.)
30 AMP BRANCH CIRCUITS SHALL USE \$10 AWG THWN (MIN.)
50 AMP BRANCH CIRCUITS SHALL USE \$6 AWG THWN (MIN.)

- 3. ALL ELECTRICAL EQUIPMENT SHALL BE INSTALLED IN CONFORMANCE WITH NFPA 70 (NEC MOST CURRENT ISSUE IN FORCE), THE RESPECTIVE EQUIPMENT MANUFACTURER'S DIRECTIONS AND ALL OTHER APPLICABLE LOCAL CODES, LAWS, ORDINANCES AND REQUIREMENTS IN FORCE. ANY INSTALLATIONS WHICH VOID THE U.L. LISTING, ETL LISTING, (OR OTHER THIRD PARTY LISTING) AND/OR THE MANUFACTURER'S WARRANTY OF A DEVICE SHALL NOT BE PERMITTED.
- 4. PER NEC 513 THE ENTIRE AREA OF THE HANGAR INCLUDING ANY ADJACENT AND COMMUNICATING AREAS NOT SUITABLY CUT OFF FROM THE HANGAR, SHALL BE CLASSIFIED AS A CLASS I, DIVISION 2 HAZARDOUS LOCATION UP TO A LEVEL 18 INCHES ABOVE THE FLOOR. AREAS IN THE VICINITY OF AIRCRAFT ARE ALSO CLASSIFIED AS HAZARDOUS AS DEFINED BY NEC 513. ALL ELECTRICAL INSTALLATIONS IN CLASSIFIED HAZARDOUS LOCATIONS SHALL BE AVOIDED UNLESS SPECIFICALLY APPROVED FOR SUCH LOCATIONS AND INSTALLED IN CONFORMANCE WITH NEC 500, 501, AND 513 AS WELL AS ANY OTHER APPLICABLE CODES AND REQUIREMENTS.
- 5. ALL EQUIPMENT NOT LABELED AS EXISTING IS NEW.
- 6. GRSC DENOTES GALVANIZED RIGID STEEL CONDUIT.
- 7. WORK SHOWN ON THIS SHEET SHALL BE PAID FOR UNDER ITEM AS109200.
- FURNISH & INSTALL A WEATHERPROOF WARNING LABEL FOR EACH PANELBOARD & LOAD CENTER (NEW & EXISTING), LOCATED IN THE FBO HANGAR, TO WARN PERSONS OF POTENTIAL ELECTRIC ARC FLASH HAZARDS, PER THE REQUIREMENTS OF NEC 110.16 "FLASH PROTECTION". LABELS SHALL BE HAZARD COMMUNICATION SYSTEMS, LLC (190 OLD MILFORD RD., P.O. BOX 1174, MILFORD, PA 18337, PHONE: 1-877-748-0244) PART NO. H6010-9WHBJ OR APPROVED EQUAL.

| SON | Project No. 819-06RWYD | Planton E-802.DWG | Score 12/16/05 | Planton E-802.DWG | Planton E-802.DW

Hanson Professional Services Inc.
1625 South Skirk Street
Springfield, Illinois 62702-2886

RUNWAY 15-33
P.F.C. OVERLAY
NEW ELECTRICAL
ONE LINE DIAGRAM

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